

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A color wheel cartridge for a projector, comprising:
a readily removable color wheel housing for receiving a color wheel disc,
wherein the color wheel housing is configured to be readily removed from and
inserted into an operative position in the projector, the color wheel housing
having, and has
a cutout portion to permit light to be projected therethrough to impinge on
only a portion of the color wheel disc disposed therein, and
a surface that slides on a track of the projector, for ease of removal.
2. (Currently Amended) The color wheel cartridge as defined in claim 1,
further comprising a motor assembly to drive the color wheel disc.
3. (Currently Amended) The color wheel cartridge as defined in claim 1,
wherein the cutout exposes less than fifty percent of the color wheel disc to the
light.
4. (Currently Amended) The color wheel cartridge as defined in claim 1,
wherein the color wheel disc has a memory disposed in on a portion of thereof.
5. (Original) The color wheel cartridge as defined in claim 4, wherein the
memory contains color wheel characteristics data.
6. (Original) The color wheel cartridge as defined in claim 4, wherein the
memory contains firmware.
7. (Original) The color wheel cartridge as defined in claim 4, wherein the
memory contains a diagnostic program.

8. (Original) The color wheel cartridge as defined in claim 4, wherein the memory contains color space data.
9. (Currently amended) The color wheel cartridge as defined in claim 4, wherein the ~~cutout does not expose the memory to the projected light~~color wheel is replacable with optical media that is accessable by the projector.
10. (Currently amended) The color wheel cartridge as defined in claim 9, wherein the memory is disposed at or adjacent a center of the color wheel disc.
11. (Original) The color wheel cartridge as defined in claim 9, wherein the memory includes key data to authorize an operation of a projector.
12. (Currently amended) The color wheel as defined in claim 1, further comprising a data portion disposed adjacent a perimeter of the color wheel disc.
- Claim 13 (Cancelled).
14. (Currently amended) A color wheel for use in a projector, comprising:
a replaceable color wheel disc configured to be easily slideable by a user into the projector; and
a memory ~~for color wheel characteristics data~~ disposed on the color wheel disc optically readable by the projector to allow downloading of information into the projector.
15. (Original) The color wheel as defined in claim 14, wherein the color wheel disc has a mounting hole therein.
16. (Previously Presented) The color wheel as defined in claim 15, wherein the memory is disposed adjacent the mounting hole.

17. (Currently Amended) The color wheel as defined in claim 14, further comprising
a first timing mark; and
a data region on the outer periphery of the color wheel disc forming at least a portion of the memory.
18. (Original) The color wheel as defined in claim 14, wherein the memory includes firmware.
19. (Original) The color wheel as defined in claim 14, wherein the memory includes a diagnostic program.
20. (Original) The color wheel as defined in claim 14, wherein the memory includes color space data.
21. (Currently amended) A projector, comprising:
means for ~~readily~~easily and slideably replacing a color wheel by a user of the projector; and
means for directing light from a light source through at least a portion of athe color wheel.
22. (Currently Amended) The projector as defined in claim ~~[[15]]~~21, further comprising means for preventing the projector from being illuminated unless data is detected on the color wheel indicating that the color wheel is authorized.
23. (Currently Amended) The projector as defined in claim ~~[[15]]~~21, further comprising a data reader disposed to read data present on the color wheel.

24. (Currently Amended) ~~The~~A projector ~~as defined in claim 17,~~ comprising:
means for readily replacing a color wheel; and
means for directing light from a light source through at least a portion of
the color wheel and wherein the means for directing light prevents lights
from being directed through the color wheel when the data reader is
activated.
25. (Currently Amended) A projector, comprising:
a replaceable color wheel cartridge easily slideable into the projector by a
user including a housing with a spindle for receiving a color wheel disc, the
housing having ~~and with~~ a cutout portion to permit light to be projected
therethrough to impinge on only a portion of ~~at~~the color wheel disc disposed
therein, ~~at~~the color wheel disc disposed on the spindle, and a motor for driving
the spindle; and
means for directing light from a light source through at least a portion of
~~at~~the color wheel disc.
26. (Currently Amended) The projector as defined in claim 25, further
comprising means for preventing the projector from being illuminated unless data
is detected on the color wheel disc indicating that the color wheel disc is
authorized.
27. (Currently Amended) The projector as defined in claim 25, further
comprising a data reader disposed to read data present on the color wheel disc.

28. (Currently amended) ~~The~~A projector as defined in claim 27, comprising:
a replaceable color wheel cartridge including a housing with a spindle for
receiving a color wheel disc, the housing having a cutout portion to permit light to
be projected therethrough to impinge on only a portion of the color wheel disc
therein, the color wheel disc disposed on the spindle, and a motor for driving the
spindle;

means for directing light from a light source through at least a portion of
the color wheel disc; and

a data reader disposed to read data present on the color wheel disc,
wherein the means for directing light prevents lights from being directed through
the color wheel disc when the data reader is activated.

29. (Currently Amended) The projector as defined in claim 25, wherein the
color wheel disc has a memory disposed in a portion of thereof.

30. (Previously Presented) The projector as defined in claim 29, wherein the
memory contains color wheel characteristics data.

31. (Currently Amended) A method for operating a projector, comprising:
loading a replaceable color wheel easily and slideably into a projector;
and

downloading from the replaceable color wheel data to the projector a
firmware upgrade for the projector.

32. (Currently Amended) A method for operating a projector, comprising:
loading a replaceable color wheel easily and slideably into a projector;
and

downloading from the replaceable color wheel data comprising a
diagnostics program; and

running the diagnostics program on the projector.

Claims 33-34 (Cancelled).

35. (Currently Amended) A method for operating a projector, comprising:
loading a replaceable color wheel easily and slideably into ~~athe~~ projector;
and

detecting timing marks on the replaceable color wheel to forcing timing
related to color segments on the replaceable color wheel to ~~hereby~~thereby allow
different color wheels to be used on the projector.

36. (Currently Amended) The color wheel cartridge as defined in claim
1, wherein the color wheel housing is configured to allow the color wheel disc ~~per~~
~~se is to be~~ readily replaceable in the ~~readily removable from~~ color wheel housing.